

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09/718,355 G

Source: IFW/6

Date Processed by STIC: 6/8/05

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 06/08/2005

PATENT APPLICATION: US/09/718,355G

TIME: 15:09:19

Input Set : E:\GOUD023.txt

Output Set: N:\CRF4\06082005\I718355G.raw

3 <110> APPLICANT: McGill University
 4 Rouleau, Guy A.
 5 Ragsdale, David
 6 Cossette, Patrick
 7 Rocherfort, Daniel
 8 Lafreniere, Ronald G.
 10 <120> TITLE OF INVENTION: LOCI FOR IDIOPATHIC GENERALIZED EPILEPSY, MUTATIONS THEREOF
 AND
 11 METHODS USING SAME TO ASSESS, DIAGNOSE, PROGNOSE OR TREAT
 12 EPILEPSY
 14 <130> FILE REFERENCE: GOUD:023US
 16 <140> CURRENT APPLICATION NUMBER: 09/718,355G
 17 <141> CURRENT FILING DATE: 2000-11-24
 19 <150> PRIOR APPLICATION NUMBER: 60/167,623
 20 <151> PRIOR FILING DATE: 1999-11-26
 22 <160> NUMBER OF SEQ ID NOS: 408
 24 <170> SOFTWARE: PatentIn version 3.2
 26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 8378
 28 <212> TYPE: DNA
 29 <213> ORGANISM: Homo sapiens
 31 <400> SEQUENCE: 1
 32 tactgcagag gtctctggtg catgtgtgta tgtgtgctgt tgtgtgtgtt tgtgtgtctg 60
 34 tgtgtttctgc cccagtgaga ctgcagccct tgtaaatact ttgacacctt ttgcaagaag 120
 36 gaatctgaac aattgcaact gaaggcacat tggtatcatc tcgtcttttg gtgatgctgt 180
 38 tcctcactgc agatggataa ttttcctttt aatcaggaat ttcatatgca gaataaatgg 240
 40 taattaaaaat gtgcaggatg acaagatgga gcaaacagtg cttgtaccac caggacctga 300
 42 cagcttcaac ttcttcacca gagaatctct tgcggctatt gaaagacgca ttgcagaaga 360
 44 aaaggcaaaag aatcccaaac cagacaaaaa agatgacgac gaaaatggcc caaagccaaa 420
 46 tagtgacttg gaagctggaa agaacccttc atttatttat ggagacattc ctccagagat 480
 48 ggtgtcagag cccctggagg acctggaccc ctactatatc aataagaaaa cttttatagt 540
 50 attgaataaa gggaaggcca tcttcggtt cagtgccacc tctgccctgt acattttaac 600
 52 tcccttcaat cctcttagga aaatagctat taagattttg gtacattcat tattcagcat 660
 54 gctaattatg tgcactatgt tgacaaactg tgtgtttatg acaatgagta accctcctga 720
 56 ttggacaaaag aatgtagaat acaccttcac aggaatatat acttttgaat cacttataaa 780
 58 aattattgca aggggattct gtttagaaga ttttactttc cttcgggatc catggaactg 840
 60 gctcgatttc actgtcatta catttgcgta cgtcacagag tttgtggacc tgggcaatgt 900
 62 ctcggcattg agaacattca gagttctccg agcattgaag acgatttcag tcattccagg 960
 64 cctgaaaacc attgtgggag ccctgatcca gtctgtgaag aagctctcag atgtaatgat 1020
 66 cctgactgtg ttctgtctga gcgtatttgc tctaattggg ctgcagctgt tcatgggcaa 1080
 68 cctgaggaat aaatgtatac aatggcctcc caccaatgct tccttgaggg aacatagtat 1140
 70 agaaaagaat ataactgtga attataatgg tacacttata aatgaaactg tctttgagtt 1200
 72 tgactggaag tcatatattc aagattcaag atatcattat ttcttgaggg gttttttaga 1260
 74 tgcactacta tgtggaaata gctctgatgc aggccaatgt ccagagggat atatgtgtgt 1320

(pg.6)

RAW SEQUENCE LISTING

DATE: 06/08/2005

PATENT APPLICATION: US/09/718,355G

TIME: 15:09:19

Input Set : E:\GOUD023.txt

Output Set: N:\CRF4\06082005\I718355G.raw

76	gaaagctggt	agaaatccca	attatggcta	cacaagcttt	gataccttca	gttgggcttt	1380
78	tttgtccttg	tttcgactaa	tgactcagga	cttctggga	aatctttatc	aactgacatt	1440
80	acgtgctgct	gggaaaacgt	acatgatatt	ttttgtattg	gtcattttct	tgggctcatt	1500
82	ctacctaata	aatttgatcc	tggctgtggt	ggccatggcc	tacgaggaac	agaatcaggc	1560
84	caccttgga	gaagcagaac	agaaagaggc	cgaatttcag	cagatgattg	aacagcttaa	1620
86	aaagcaacag	gaggcagctc	agcaggcagc	aacggcaact	gcctcagaac	attccagaga	1680
88	gcccagtgc	gcaggcaggc	tctcagacag	ctcatctgaa	gcctctaagt	tgagttccaa	1740
90	gagtgcctaag	gaaagaagaa	atcggaggaa	gaaaagaaaa	cagaaagagc	agtctggtgg	1800
92	ggaagagaaa	gatgaggatg	aattccaaaa	atctgaatct	gaggacagca	tcaggaggaa	1860
94	aggttttcgc	ttctccattg	aagggaaccg	attgacatat	gaaaagagg	actcctcccc	1920
96	acaccagtct	ttgttgagca	tccgtggctc	cctattttca	ccaaggcgaa	atagcagaac	1980
98	aagccttttc	agcttttagag	ggcgagcaaa	ggatgtggga	tctgagaacg	acttcgcaga	2040
100	tgatgagcac	agcacctttg	aggataacga	gagccgtaga	gattccttgt	ttgtgccccg	2100
102	acgacacgga	gagagacgca	acagcaacct	gagtcagacc	agtaggtcat	cccggatgct	2160
104	ggcagtgttt	ccagcgaatg	ggaagatgca	cagcactgtg	gattgcaatg	gtgtgggttc	2220
106	cttggttggt	ggaccttcag	ttcctacatc	gcctgttgga	cagcttctgc	cagagggtgat	2280
108	aatagataag	ccagctactg	atgacaatgg	aacaaccact	gaaactgaaa	tgagaaaagag	2340
110	aaggtcaagt	tctttccacg	tttccatgga	ctttctagaa	gatccttccc	aaaggcaacg	2400
112	agcaatgagt	atagccagca	ttctaacaaa	tacagttaga	gaacttgaag	aatccaggca	2460
114	gaaatgccca	ccctgttggt	ataaattttc	caacatattc	ttaatctggg	actgttcttc	2520
116	atattggtta	aaagtgaaac	atgttgtcaa	cctggttggtg	atggacccat	ttgttgacct	2580
118	ggccatcacc	atctgtattg	tcttaataac	tcttttcatg	gccatggagc	actatccaat	2640
120	gacggacat	ttcaataatg	tgcttacagt	aggaaacttg	gttttctactg	ggatctttac	2700
122	agcagaaatg	tttctgaaaa	ttattgccat	ggatccttac	tattatttcc	aagaaggctg	2760
124	gaatatcttt	gacggtttta	ttgtgacgct	tagcctggta	gaacttggac	tcgccaatgt	2820
126	ggaaggatta	tctgttctcc	gttcatttctg	attgctgcga	gttttcaagt	tggcaaaatc	2880
128	ttggccaacg	ttaaatatgc	taataaagat	catcggcaat	tccgtggggg	ctctgggaaa	2940
130	tttaaccctc	gtcttgcca	tcatcgtctt	catttttgcc	gtggtcggca	tgacgtctt	3000
132	tggtaaaagc	tacaaagatt	gtgtctgcaa	gatcgccagt	gattgtcaac	tcccacgctg	3060
134	gcacatgaat	gacttcttcc	actccttcc	gattgtgttc	cgctgtctgt	gtggggagtg	3120
136	gatagagacc	atgtgggact	gtatggagg	tgctggtcaa	gccatgtgcc	ttactgtctt	3180
138	catgatggct	atggtgattg	gaaacctagt	ggtcctgaat	ctctttctgg	ccttgcttct	3240
140	gagctcattt	agtgcagaca	accttgacgc	cactgatgat	gataatgaaa	tgaataatct	3300
142	ccaaattgct	gtggatagga	tgacaaaagg	agtagcttat	gtgaaaagaa	aatatatga	3360
144	atttattcaa	cagtccttca	ttaggaaaca	aaagatttta	gatgaaatta	aaccacttga	3420
146	tgatctaaac	aacaagaaag	acagttgtat	gtccaatcat	acagcagaaa	ttgggaaaga	3480
148	tcttgactat	cttaaagatg	taaatggaac	tacaagtgg	ataggaactg	gcagcagtgt	3540
150	tgaaaaatac	attattgatg	aaagtgatta	catgtcattc	ataaacaacc	ccagtcttac	3600
152	tgtgactgta	ccaattgctg	taggagaatc	tgactttgaa	aatttaaaaca	cggaagactt	3660
154	tagtagtgaa	tcggatctgg	aagaaagcaa	agagaaactg	aatgaaagca	gtagctcatc	3720
156	agaaggtagc	actgtggaca	tcggcgcacc	tgtagaagaa	cagcccgtag	tggaaacctga	3780
158	agaaactctt	gaaccagaag	cttgtttcac	tgaaggctgt	gtacaaagat	tcaagtgttg	3840
160	tcaaatcaat	gtggaagaag	gcagaggaaa	acaatgggtg	aacctgagaa	ggacgtgttt	3900
162	ccgaatagtt	gaacataact	ggtttgagac	cttcattgtt	ttcatgattc	tccttagtag	3960
164	tggtgctcgg	catttgaaaga	tatatatatt	gatcagcgaa	agacgattaa	gacgatgttg	4020
166	gaatatgctg	acaaggtttt	cacttacatt	ttcattctgg	aaatgcttct	aaaatgggtg	4080
168	gcatatggct	atcaaacata	tttcaccaat	gcctggtgtt	ggctggactt	cttaattgtt	4140
170	gatgtttcat	tggtcagttt	aacagcaaat	gccttggtt	actcagaact	tggagccatc	4200
172	aaatctctca	ggacactaag	agctctgaga	cctctaagag	ccttatctcg	atttgaaggg	4260

RAW SEQUENCE LISTING

DATE: 06/08/2005

PATENT APPLICATION: US/09/718,355G

TIME: 15:09:19

Input Set : E:\GOUD023.txt

Output Set: N:\CRF4\06082005\I718355G.raw

174	atgagggttg	ttgtgaatgc	ccttttagga	gcaattccat	ccatcatgaa	tgtgcttctg	4320
176	gtttgtctta	tattctggct	aattttcagc	atcatgggcg	taaatttggt	tgctggcaaa	4380
178	ttctaccact	gtattaacac	cacaactggt	gacaggtttg	acatcgaaga	cgtgaataat	4440
180	catactgatt	gcctaaaact	aatagaaaga	aatgagactg	ctcgaatgaa	aaatgtgaaa	4500
182	gtaaactttg	ataatgtagg	atgtgggtat	ctctctttgc	ttcaagttgc	cacattcaaa	4560
184	ggatggatgg	atataatgta	tgcagcagtt	gattccagaa	atgtggaact	ccagcctaag	4620
186	tatgaagaaa	gtctgtacat	gtatctttac	tttggtatgt	tcatcatctt	tgggtccttc	4680
188	ttcaccttga	acctgtttat	tgggtgtcatc	atagataatt	tcaaccagca	gaaaaagaag	4740
190	tttggaggtc	aagacatctt	tatgacagaa	gaacagaaga	aatactataa	tgcaatgaaa	4800
192	aaattaggtg	cgaaaaaacc	gcaaaagcct	atacctcgac	caggaaacaa	atttcaagga	4860
194	atgggtcttg	acttcgtaac	cagacaagtt	tttgacataa	gcatcatgat	tctcatctgt	4920
196	cttaacatgg	tcacaatgat	ggtggaaaca	gatgaccaga	gtgaatatgt	gactaccatt	4980
198	ttgtcacgca	tcaatctggt	gttcattgtg	ctattttactg	gagagtgtgt	actgaaactc	5040
200	atctctctac	gccattatta	ttttaccatt	ggatggaata	tttttgattt	tgtggttgtc	5100
202	attctctcca	ttgtaggtat	gtttcttgcc	gagctgatag	aaaagtattt	cgtgtcccct	5160
204	accctgttcc	gagtgtatccg	tcttgctagg	attggccgaa	tcctacgtct	gatcaaagga	5220
206	gcaaagggga	tccgcacgct	gctctttgct	ttgatgatgt	cccttcctgc	gttggttaac	5280
208	atcggcctcc	tactcttcct	agtcagtgtc	atctacgcca	tctttgggat	gtccaacttt	5340
210	gcctatgtta	agagggaagt	tgggatcgat	gacatgttca	actttgagac	ctttggcaac	5400
212	agcatgatct	gcctattcca	aattacaacc	tctgtggct	gggatggatt	gctagcacc	5460
214	attctcaaca	gtaagccacc	cgactgtgac	cctaataaag	ttaaccctgg	aagctcagtt	5520
216	aaggagact	gtgggaaccc	atctgttgga	attttctttt	ttgtcagtta	catcatcata	5580
218	tccttcctgg	ttgtggtgaa	catgtacatc	gcggtcatcc	tggagaactt	cagtgttgct	5640
220	actgaagaaa	gtgcagagcc	tctgagttag	gatgactttg	agatgttcta	tgaggtttgg	5700
222	gagaagtttg	atcccgatgc	aactcagttc	atggaatttg	aaaaattatc	tcagtttgca	5760
224	gctgcgcttg	aaccgcctct	caatctgcca	caaccaaaca	aactccagct	cattgccatg	5820
226	gatttgccca	tgggtgagtgg	tgaccggatc	cactgtcttg	atatcttatt	tgcttttaca	5880
228	aagcgggttc	taggagagag	tggagagatg	gatgctctac	gaatacagat	ggaagagcga	5940
230	ttcatggctt	ccaatccttc	caaggtctcc	tatcagccaa	tactactac	tttaaaacga	6000
232	aaacaagagg	aagtatctgc	tgctcattatt	cagcgtgctt	acagacgcca	ccttttaaag	6060
234	cgaactgtaa	aacaagcttc	ctttacgtac	aataaaaaaca	aaatcaaagg	tggggctaatt	6120
236	cttcttataa	aagaagacat	gataattgac	agaataaatg	aaaactctat	tacagaaaaa	6180
238	actgatctga	ccatgtccac	tgcagcttgt	ccaccttcct	atgaccgggt	gacaaagcca	6240
240	attgtggaaa	aacatgagca	agaaggcaaa	gatgaaaaag	ccaaagggaa	ataaatgaaa	6300
242	ataaataaaa	ataattgggt	gacaaattgt	ttacagcctg	tgaaggatg	gtatttttat	6360
244	caacaggact	ccttttaggag	gtcaatgcca	aactgactgt	ttttacacaa	atctccttaa	6420
246	ggtcagtgcc	tacaataaga	cagtgaaccc	ttgtcagcaa	actgtgactc	tgtgtaaagg	6480
248	ggagatgacc	ttgacaggag	gttactgttc	tcactaccag	ctgacactgc	tgaagataag	6540
250	atgcacaatg	gctagtcaga	ctgtagggac	cagtttcaag	gggtgcaaac	ctgtgatttt	6600
252	gggtgtgttt	aacatgaaac	actttagtgt	agtaattgta	tccactgttt	gcatttcaac	6660
254	tgccacattt	gtcacatttt	tatggaatct	gttagtggtg	tcatcttttt	gttaattccat	6720
256	gtgtttatta	tatgtgacta	tttttgtaaa	cgaagtctct	gttgagaaat	aggctaagga	6780
258	cctctataac	aggtatgcca	cctggggggt	atggcaacca	catggccctc	ccagctacac	6840
260	aaagtcgtgg	tttgcatgag	ggcatgctgc	acttagagat	catgcatgag	aaaaagtcac	6900
262	aagaaaaaca	aattcttaaa	tttcaccata	tttctgggag	gggttaattgg	gtgataagtg	6960
264	gaggtgcttt	gttgatcttg	ttttgcgaaa	tccagcccct	agaccaagta	gattatttgt	7020
266	gggtaggcca	gtaaatctta	gcaggtgcaa	acttcattca	aatgtttgga	gtcataaatg	7080
268	ttatgtttct	ttttgttgta	ttaaaaaaaa	aacctgaata	gtgaatattg	cccctacccc	7140
270	tccaccgcca	gaagactgaa	ttgacaaaaa	ttactcttta	taaatttctg	ctttttcctg	7200

RAW SEQUENCE LISTING

DATE: 06/08/2005

PATENT APPLICATION: US/09/718,355G

TIME: 15:09:19

Input Set : E:\GOUD023.txt

Output Set: N:\CRF4\06082005\I718355G.raw

272	cactttgttt	agccatcttc	ggctctcagc	aagggtgaca	ctgtatatgt	taatgaaatg	7260
274	ctattttatta	tgtaaatagt	cattttaccc	tgtggtgcac	gtttgagcaa	acaaataatg	7320
276	acctaagcac	agtattttatt	gcatcaaata	tgtaccacaa	gaaatgtaga	gtgcaagctt	7380
278	tacacaggta	ataaaatgta	ttctgtacca	tttatagata	gtttggatgc	tatcaatgca	7440
280	tgttttatatt	accatgctgc	tgtatctggt	ttctctcact	gctcagaatc	tcattttatga	7500
282	gaaaccatat	gtcagtggta	aagtcaagga	aattgttcaa	cagatctcat	ttattttaagt	7560
284	cattaagcaa	tagtttgtag	cactttaaca	gctttttggt	tattttttaca	ttttaagtgg	7620
286	ataacatatg	gtatatagcc	agactgtaca	gacatgttta	aaaaaacaca	ctgcttaacc	7680
288	tattaaatat	gtgttttagaa	ttttataagc	aaatataaat	actgtaaaaa	gtcactttat	7740
290	tttattttttc	agcattatgt	acataaatat	gaagaggaaa	ttatcttcag	gttgatatca	7800
292	caatcacttt	tcttactttc	tgtccatagt	actttttcat	gaaagaaatt	tgctaaataa	7860
294	gacatgaaaa	caagactggg	tagttgtaga	tttctgcttt	ttaaattaca	tttgctaatt	7920
296	ttagattatt	tcacaatttt	aaggagcaaa	ataggttcac	gattcatatc	caaattatgc	7980
298	tttgcaattg	gaaaagggtt	taaaatttta	tttatatttc	tggtagtacc	tgactaact	8040
300	gaattgaagg	tagtgcttat	gttattttttg	ttcttttttt	ctgacttcgg	tttatgtttt	8100
302	catttctttg	gagtaatgct	gctctagtgt	ttctaaatag	aatgtgggct	tcataatttt	8160
304	tttttccaca	aaaacagagt	agtcaactta	tatagtcaat	tacatcagga	cattttgtgt	8220
306	ttcttacaga	agcaaaccat	aggctcctct	tttccttaaa	actacttaga	taaactgtat	8280
308	tcgtgaactg	catgctggaa	aatgctacta	ttatgctaaa	taatgctaac	caacatttaa	8340
310	aatgtgcaaa	actaataaag	attacatttt	ttatttta			8378

313 <210> SEQ ID NO: 2

314 <211> LENGTH: 8378

315 <212> TYPE: DNA

316 <213> ORGANISM: Homo sapiens

318 <400> SEQUENCE: 2

319	tactgcagag	gtctctggtg	catgtgtgta	tgtgtgctgt	tgtgtgtgtt	tgtgtgtctg	60
321	tgtgtttctgc	cccagtgaga	ctgcagccct	tgtaataact	ttgacacctt	ttgcaagaag	120
323	gaatctgaac	aattgcaact	gaaggcacat	tgttatcatc	tcgtcttttg	gtgatgctgt	180
325	tcctcactgc	agatggataa	ttttcctttt	aatcaggaat	ttcatatgca	gaataaatgg	240
327	taattaaaaa	gtgcaggatg	acaagatgga	gcaaacagtg	cttgtaccac	caggacctga	300
329	cagcttcaac	ttcttcacca	gagaatctct	tgcggctatt	gaaagacgca	ttgcagaaga	360
331	aaaggcaaa	aatcccaaac	cagacaaaaa	agatgacgac	gaaaatggcc	caaagccaaa	420
333	tagtgacttg	gaagctggaa	agaaccttcc	atttattttat	ggagacattc	ctccagagat	480
335	ggtgtcagag	cccctggagg	acctggaccc	ctactatata	aataagaaaa	cttttatagt	540
337	attgaataaa	gggaaggcca	tcttcgggtt	cagtgcacc	tctgccctgt	acattttaac	600
339	tcccttcaat	cctcttagga	aaatagctat	taagattttg	gtacattcat	tattcagcat	660
341	gctaattatg	tgactatttt	tgacaaaactg	tgtgtttatg	acaatgagta	accctcctga	720
343	ttggacaaag	aattgtagaat	acaccttcac	aggaatatat	acttttgaat	cacttataaa	780
345	aattattgca	aggggattct	gtttagaaga	ttttactttc	cttcgggatc	catggaactg	840
347	gctcgatttc	actgtcatta	catttgcggt	tgtaacagaa	tttgtaaacc	taggcaattt	900
349	ttcagctctt	cgcactttca	gagtcttgag	agctttgaaa	actatttcgg	taattccagg	960
351	cctgaaaacc	attgtgggag	ccctgatcca	gtctgtgaag	aagctctcag	atgtaatgat	1020
353	cctgactgtg	ttctgtctga	gcgtattttgc	tctaattggg	ctgcagctgt	tcatgggcaa	1080
355	cctgaggaat	aaatgtatac	aatggcctcc	caccaatgct	tccttgagg	aacatagtat	1140
357	agaaaagaat	ataactgtga	attataatgg	tacacttata	aatgaaactg	tctttgagtt	1200
359	tgactggaag	tcatatattc	aagattcaag	atatcattat	ttcctggagg	gtttttttaga	1260
361	tgactacta	tgtggaaata	gctctgatgc	aggccaatgt	ccagagggat	atatgtgtgt	1320
363	gaaagctggt	agaaatccca	attatggcta	cacaagcttt	gataccttca	gttgggcttt	1380
365	tttgtccttg	tttcgactaa	tgactcagga	cttctgggaa	aatctttatc	aactgacatt	1440

RAW SEQUENCE LISTING

DATE: 06/08/2005

PATENT APPLICATION: US/09/718,355G

TIME: 15:09:19

Input Set : E:\GOUD023.txt

Output Set: N:\CRF4\06082005\I718355G.raw

367	acgtgctgct	gggaaaacgt	acatgatatt	ttttgtattg	gtcattttct	tgggctcatt	1500
369	ctacctaata	aatttgatcc	tggctgtggt	ggccatggcc	tacgaggaac	agaatcaggc	1560
371	caccttgaa	gaagcagaac	agaaagaggc	cgaatttcag	cagatgattg	aacagcttaa	1620
373	aaagcaacag	gaggcagctc	agcaggcagc	aacggcaact	gcctcagaac	attccagaga	1680
375	gccagtgca	gcaggcaggc	tctcagacag	ctcatctgaa	gcctctaagt	tgagttccaa	1740
377	gagtgcctaag	gaaagaagaa	atcggaggaa	gaaaagaaaa	cagaaagagc	agtctggtgg	1800
379	ggaagagaaa	gatgaggatg	aattccaaaa	atctgaatct	gaggacagca	tcaggaggaa	1860
381	aggttttcgc	ttctccattg	aagggaaccg	attgacatat	gaaaagaggt	actcctcccc	1920
383	acaccagtct	ttgttgagca	tccgtggctc	cctattttca	ccaaggcgaa	atagcagaac	1980
385	aagccttttc	agcttttagag	ggcgagcaaa	ggatgtggga	tctgagaacg	acttcgcaga	2040
387	tgatgagcca	gcacctttga	ggataacgag	agccgtagag	attccttggt	tgtgccccga	2100
389	cgacacggag	agagacgcaa	cagcaacctg	agtcagacca	gtaggctatc	ccggatgctg	2160
391	gcagtgtttc	cagcgaatgg	gaagatgcac	agcactgtgg	attgcaatgg	tgtggtttcc	2220
393	ttggttggtg	gaccttcagt	tcctacatcg	cctgttggtg	agcttctgcc	agaggtgata	2280
395	atagataagc	cagctactga	tgacaatgga	acaaccactg	aaactgaaat	gagaaagaga	2340
397	aggtcaagtt	ctttccacgt	ttccatggac	tttctagaag	atccttccca	aaggcaacga	2400
399	gcaatgagta	tagccagcat	tctaacaaat	acagtagaag	aacttgaaga	atccaggcag	2460
401	aaatgcccac	cctgttggtg	taaattttcc	aacatattct	taatctggga	ctgttctcca	2520
403	tattggttaa	aagtgaacaa	tgttgtaaac	ctggttggtg	tggaccattg	tgttgacctg	2580
405	gccatcacca	tctgtattgt	cttaaatact	cttttcatgg	ccatggagca	ctatccaatg	2640
407	acggaccatt	tcaataatgt	gcttacagta	ggaaacttgg	ttttcactgg	gatctttaca	2700
409	gcagaaatgt	ttctgaaaaat	tattgccatg	gaccttactg	attattttcca	agaaggctgg	2760
411	aatatctttg	acggttttat	tgtgacgctt	agcctggtag	aacttggact	cgccaatgtg	2820
413	gaaggattat	ctgttctccg	ttcatttctga	ttgctgcgag	ttttcaagtt	ggcaaaatct	2880
415	tggccaacgt	taaatatgct	aataaagatc	atcggaactt	ccgtgggggc	tctgggaaat	2940
417	ttaaccctcg	tcttggccat	catcgtcttc	atttttgccg	tggtcgccat	gcagctcttt	3000
419	ggtaaaagct	acaaagattg	tgtctgcaag	atcgccagtg	attgtcaact	cccacgctgg	3060
421	cacatgaatg	acttcttcca	ctccttcctg	attgtgttcc	gcgtgctgtg	tggggagtgg	3120
423	atagagacca	tgtgggactg	tatggaggtt	gctgggtcaag	ccatgtgcct	tactgtcttc	3180
425	atgatggtca	tgggtgattg	aaacctagtg	gtcctgaatc	tctttctggc	cttgcttctg	3240
427	agctcattta	gtgcagacaa	ccttgagacc	actgatgatg	ataatgaaat	gaataatctc	3300
429	caaattgctg	tggataggat	gcacaaagga	gtagcttatg	tgaaaagaaa	aatatatgaa	3360
431	tttattcaac	agtccttcat	taggaaacaa	aagatttttag	atgaaattaa	accacttgat	3420
433	gatctaaaca	acaagaaaga	cagttgtatg	tccaatcata	cagcagaaat	tgggaaagat	3480
435	cttgactatc	ttaaagatgt	aaatggaact	acaagtggta	taggaactgg	cagcagtgtt	3540
437	gaaaaataca	ttattgatga	aagtgattac	atgtcattca	taaaacaacc	cagtccttact	3600
439	gtgactgtac	caattgctgt	aggagaatct	gactttgaaa	atttaaacac	ggaagacttt	3660
441	agtagtgaat	cggatctgga	agaaagcaaa	gagaaactga	atgaaagcag	tagctcatca	3720
443	gaaggtagca	ctgtggacat	cggcgcacct	gtagaagaac	agcccgtagt	ggaacctgaa	3780
445	gaaactcttg	aaccagaagc	ttgtttcact	gaaggctgtg	tacaaagatt	caagtgttgt	3840
447	caaatcaatg	tggagaagg	cagaggaaaa	caatggtgga	acctgagaag	gacgtgtttc	3900
449	cgaatagtgt	aacataactg	gtttgagacc	ttcattgttt	tcatgattct	ccttagtagt	3960
451	ggtgctctgg	catttgaaaga	tatatatatt	gatcagcgaa	agacgattaa	gacgatgttg	4020
453	gaatatgctg	acaaggtttt	cacttacatt	ttcattctgg	aaatgcttct	aaaatgggtg	4080
455	gcatatggct	atcaaaatat	ttcaccaatg	cctgggtgtg	gctggacttc	ttaattgttg	4140
457	atgtttcatt	ggtcagttta	acagcaaatg	ccttgggtta	ctcagaactt	ggagccatca	4200
459	aatctctcag	gacactaaga	gctctgagac	ctctaagagc	cttatctcga	tttgaaggga	4260
461	tgagggtggt	tgtgaatgcc	cttttaggag	caattccatc	catcatgaat	gtgcttctgg	4320
463	tttgtcttat	attctggcta	attttcagca	tcattggcgt	aaatttggtt	gctggcaaat	4380

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/718,355G

DATE: 06/08/2005
TIME: 15:09:20

Input Set : E:\GOUD023.txt
Output Set: N:\CRF4\06082005\I718355G.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:23; N Pos. 393,415,454,513
Seq#:29; N Pos. 43
Seq#:41; N Pos. 293
Seq#:42; N Pos. 133
Seq#:44; N Pos. 229
Seq#:48; N Pos. 164
Seq#:55; N Pos. 90,378,379,380,381,382,383,384,385,386
Seq#:67; Xaa Pos. 122
Seq#:68; Xaa Pos. 122
Seq#:84; N Pos. 477

VERIFICATION SUMMARY

DATE: 06/08/2005

PATENT APPLICATION: US/09/718,355G

TIME: 15:09:20

Input Set : E:\GOUD023.txt

Output Set: N:\CRF4\06082005\I718355G.raw

L:2201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:360
M:341 Repeated in SeqNo=23
L:2351 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:4305 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:240
L:4328 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:120
L:4378 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:180
L:4498 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:120
L:4728 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:60
M:341 Repeated in SeqNo=55
L:5743 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67 after pos.:112
L:6260 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68 after pos.:112
L:7199 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84 after pos.:420